

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address COMMISSIONER FOR PATENTS
P. Dox 1450
P. Dox 1450
Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/632,522	08/01/2003	Ching Hian Hee	83377.0008	4355
26021	7590 10/04/2005		EXAMINER	
HOGAN & HARTSON L.L.P.			RICKMAN, HOLLY C	
500 S. GRAND AVENUE SUITE 1900			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90071-2611			1773	

DATE MAILED: 10/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		N					
Office Action Summary		Application No.	Applicant(s)				
		10/632,522	HEE ET AL.				
		Examiner	Art Unit				
	The state the DATE of this agreement of the state of the	Holly Rickman	1773				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
/	<i>,</i> —	s action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
4) Claim(s) <u>1-40</u> is/are pending in the application.							
4a) Of the above claim(s) 24-40 is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.						
	Claim(s) <u>1-6 and 21-23</u> is/are rejected.						
·	7) Claim(s) 7-20 is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers						
9)□	The specification is objected to by the Examin-	er.					
10)⊠ The drawing(s) filed on <u>01 August 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		🗖 .					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail D					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date		Patent Application (PTO-152)				

Application/Control Number: 10/632,522 Page 2

Art Unit: 1773

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I in the reply filed on 7/7/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 24-40 are withdrawn from consideration as being directed to a non-elected invention.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 19 is rendered indefinite by the relative term "high saturation magnetization." The term "high saturation magnetization" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Application/Control Number: 10/632,522 Page 3

Art Unit: 1773

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-6, and 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Thoma

et al. (US 5569523).

Thoma et al. disclose a magnetic recording medium having a substrate, a first magnetic

layer and a second magnetic layer wherein the magnetic layers have easy axes that are tilted with

respect to the normal. The angles of the easy axes are acute with respect to the direction normal

to the film surface (see col. 3, lines 43-50; col. 12, lines 58-64; col. 15, lines 12-36).

With respect to claim 5, the examiner takes the position that the structure taught by

Thoma et al. inherently meets the limitation requiring biaxial orientation of the easy axes by

virtue of the fact that the reference teaches the same structure and composition of layers as

disclosed by Applicant (i.e. Co oxide). Thus, one of ordinary skill in the art would expect

Thoma's structure to exhibit the claimed biaxial property in the absence of a showing to the

contrary.

With respect to claim 6, one of ordinary skill in the art would understand that two

magnetic layers disposed in contact with one another would exhibit exchange coupling.

7. Claims 1-3, 5-6, and 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by

Sugita et al. (US 5534324).

Sugita et al. disclose a magnetic recording medium having a substrate, a first magnetic layer and a second magnetic layer wherein the magnetic layers have easy axes that are tilted with respect to the normal. The angles of the easy axes are acute with respect to the direction normal to the film surface (see Fig 1; col. 2, lines 1-10; col. 4, lines 52-56).

Page 4

With respect to claim 5, the examiner takes the position that the structure taught by Sugita et al. inherently meets the limitation requiring biaxial orientation of the easy axes by virtue of the fact that the reference teaches the same structure and composition of layers as disclosed by Applicant (i.e. Co oxide). Thus, one of ordinary skill in the art would expect Sugita's structure to exhibit the claimed biaxial property in the absence of a showing to the contrary.

With respect to claim 6, one of ordinary skill in the art would understand that two magnetic layers disposed in contact with one another would exhibit exchange coupling.

Allowable Subject Matter

8. Claims 7-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The closest prior art to Thoma et al. and Sugita et al. fails to teach or suggest a recording medium having a perpendicular magnetic layer and a longitudinal magnetic layer.

Application/Control Number: 10/632,522 Page 5

Art Unit: 1773

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Li et al. (US 2005/0214585) and Gao (US 2004/0233578) are cited as art of interest.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Holly Rickman **Primary Examiner**

Art Unit 1773